

## PATENT APPLICATION

ITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Yasuhiro SAKURAI et al.

Application No.: 10/562,115

Filed: December 23, 2005

Docket No.: 126418

For:

PROCESS FOR PRODUCING INDOLE COMPOUND

## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- $\boxtimes$ This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- $\boxtimes$ 2. Relevance of one or more non-English language reference is discussed in the present specification. See References 6-9 & 11-17.
- $\boxtimes$ 3. One or more reference cited herein was cited in the International Search Report. An English language version of the International Search Report is attached for the Examiner's information. See References 1-5 & 10.
- $\boxtimes$ An English language Abstract of one or more non-English language reference is attached hereto. See References 1-5, 8 & 9.

 $\boxtimes$ 

5. A computer-generated English language translation of one or more Japanese Patent Publication cited herein has been obtained from the website of the Japanese Patent Office ([http://www.jpo.go.jp]), and is attached, but has not been reviewed for accuracy. See References 1-3.

Respectfully submitted

James A. Oliff

Registration No. 27,075

John W. Fitzpatrick Registration No. 41,018

JAO:JWF/jdb

Date: May 1, 2006

OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, Virginia 22320 Telephone: (703) 836-6400 DEPOSIT ACCOUNT USE
AUTHORIZATION
Please grant any extension
necessary for entry;
Charge any fee due to our
Deposit Account No. 15-0461

Sheet \_/\_\_ of \_/\_ Form PTO-14 TRAD US Dept. of Commerce ATTY DOCKET NO. PATENT & TRADEMARK OFFICE 126418

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

(REV. 1/06)

APPLICATION NO. 10/562,115

APPLICANTS Yasuhiro SAKURAI et al.

FILING DATE December 23, 2005 GROUP

|                      |             |   | Decem           | ber 23, 2005 |                             |                               |
|----------------------|-------------|---|-----------------|--------------|-----------------------------|-------------------------------|
|                      |             | FOR   | EIGN PATENT DOO | CUMENTS      | · · ·                       |                               |
| Examiner<br>Initials | Cite<br>No. | Document Number   | Date            | Country      | With<br>English<br>Abstract | With<br>English<br>Translatio |
|                      | 1           | JP A 2002-241364  | 8/28/2002       | Japan        | x                           | х                             |
|                      | 2           | JP A 2002-155051  | 5/28/2002       | Japan        | х                           | х                             |
|                      | 3           | JP A 2001-328979  | 11/27/2001      | Japan        | x                           | х                             |
|                      | 4           | JP A 58-032863  | 2/25/1983       | Japan        | х .                         |                               |
|                      | 5           | JP A 61-151171  | 7/9/1986        | Japan        | x                           |                               |
|                      | 6           | DE 262327   | 7/9/1913        | Germany      |                             |                               |
|                      | 7           | JP A 47-038963  | 12/6/1972       | Japan        |                             |                               |
|                      | 8           | WO 02/48104 A1  | 6/20/2002       | WIPO         | х                           |                               |
|                      | 9           | WO 99/21851 A1  | 5/6/1999        | WIPO         | · x                         |                               |
|                      |             |   | OTHER DOCUME    | NTS          |                             |                               |
| Examiner<br>Initials | Cite<br>No. | (Including Author, Title, Date, Pertinent Pages, etc.)  |                 |              |                             |                               |
|                      | 10          | Racher, et al.; (1983); "Synthesis of Substituted Indoles via Meerwein Arylation," Journal of Organic Chemistry, Vol. 48, No. 12, pp 2066 - 2069  |                 |              |                             |                               |
|                      | 11          | Allen et al.; (1942); Organic Synthesis; x27, pp. 94-97.  |                 |              |                             |                               |
|                      | 12          | Seibert; (1947); "Uber den Mechanismus der Reaktion von Kishner-Wolff-Staudinger;" pp. 266-271.   |                 |              |                             |                               |
|                      | 13          | Marriott, et al.; (2001); "Synthesis of a 2,3-Dimethoxyrotenonoid," Heterocycles, Vol. 55, No. 1, pp. 91-8.   |                 |              |                             |                               |
|                      | 14          | Cho, et al.; (2001); "Ruthenium-Catalyzed heteroannulation of Anilines with Alkanolammonium Chlorides Leading to Indoles," Tetrahedron, 57, pp. 3321-3329.  |                 |              |                             |                               |
|                      | 15          | Nishiyama, et al.; (1999); "Synthesis of Indoles: Selenium-Catalyzed Reductive N-Heterocyclizationof 2-Nitrostyrenes with Carbon Monoxide," Tetrahedron Letters, 40, pp. 5717-5720                                      |                 |              |                             |                               |
|                      | 16          | Tollari, et al.; (1994); "Synthesis of Heterocycles Via Palladium-Catalyzed Carbonylation of Ortho-Substituted Organic Nitro Compounds in Relatively Mild Conditions," Journal of Molecular Catalysis, 87, pp. 203-214. |                 |              |                             |                               |
|                      | 17          | Verley; (1924); "L'amidure de Sodium Employe comme Agent de Dehydratation Preparation de l'Indol, du Methyl-Indol et de ses Homologues;" Memoires Presentes A La Societe Chimique, pp.1039-1040                         |                 |              |                             |                               |
| EXAMINER             |             | <u> </u>  | <del></del>     |              | DATE CONSIDERED             | )                             |
| Examiner:            |             | citation considered, whether or not citation considered, whether or not citationsidered. Include copy of this form with   |                 |              | hrough citation if not in   | conforman                     |

Date: May 1, 2006